

# Matthew Olson

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## CONTACT

**Location:** Seattle, WA  
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## WORK EXPERIENCE

### Metacell, LLC

July 2014 — Present

#### Software Developer

Lead front end developer at startup producing an open source web application. Work focuses on developing Geppetto simulation platform and the OpenWorm project.

- Wrote OpenWorm web application
- Lead open source team that develops front end Geppetto simulation application. Personally implemented a variety of features.
- Streamlined Geppetto/Wormsim release process, set up continuous integration and testing infrastructure.

### Intrepid Learning

Feb 2013 — July 2014

#### Software Developer

I worked on a team of six developers and two designers to implement Intrepid's flagship learning application product, serving thousands of users from dozens of corporate clients. I also worked for six months on a three-person team of developers to deliver a large-scale learning application for a major finance industry client, on time and under budget.

- Implemented discussions feature that allows many users to simultaneously engage in moderated discussions on content items
- Implemented a wide variety of other features, including color theming, social media integration, content delivery and presentation, site administration features, performance enhancements, and bug fixes.
- Helped maintain deployment and testing infrastructure.

### Seattle Cancer Care Alliance

March 2011 — Feb 2013

#### Software Developer

Software developer for a breast cancer research group where I drove the development of a variety of software tools that allow doctors to interpret, measure, and analyze MRI images for research purposes

- Created web application for training radiology residents. This application allows them to interact with sample MRI images via a WebGL interface.
- Created measurement tools for experimental breast MRI scans.
- Created lab website

## QUALIFICATIONS

Most familiar programming languages: Java, Javascript, Python, Scala

## EDUCATION

### MS Electrical Engineering

2009 — 2010

#### University of Washington

Thesis: Markov modeling of stochastic DNA logic gate reactions in vivo. Wrote Markov model simulations of chemical reactions using short stranded DNA.

### BS Physics

2004 — 2008

#### University of Washington

Worked with physics professor to develop geo-spatial measurement and control software for the ATLAS experiment at the Large Hadron Collider.

Citation <http://alignment.hep.brandeis.edu/atlas/ECA.pdf>

## INTERESTS

### Open Source Contributions - [github.com/mlolson](https://github.com/mlolson)

I began volunteering on the OpenWorm project in 2/2014. This project seeks to produce the first computer simulation of the *c.elegans* nematode and make it available on the web. This volunteering evolved into a paid position in July, 2014.

REFERENCES

References available upon request.